AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Previously Presented) An uplink synchronization detecting method of a mobile communication system, comprising:

comparing a synchronization detection threshold value set for each section of a time period in which a quality of a pilot is measured, and a pilot bit error rate calculated for each section; and

judging a synchronization detection based on a result of said comparing.

2.   (Currently Amended) The method of claim 1, wherein ~~if~~ when a pilot bit error rate calculated in a certain section of said time period is smaller than the synchronization detection threshold value set for the section, it is judged to be in synchronization status, and ~~if~~ when a pilot bit error rate calculated for every section of said time period is not smaller than a synchronization detection threshold value set for every section, a pilot bit error rate calculated for a first section is compared with a certain synchronization failure threshold value, and ~~then, if~~

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when the pilot bit error rate of the first section is greater than the synchronization failure

threshold value, it is judged to be synchronization failure.

3.   (Original) The method of claim 1, wherein the time period for measuring the pilot

quality includes a plurality of frames or a plurality of slots.

4.   (Currently Amended) The method of claim 1, wherein ~~if~~ when the result of

the comparison indicates the pilot bit error rate is smaller than the synchronization detection

threshold value set for the section, synchronization is indicated.

5.   (Currently Amended) The method of claim 1, wherein ~~if~~ when the result of the

comparison for every section indicates the pilot bit error rate for every section is not smaller

than a corresponding synchronization detection threshold value set for every section, a pilot bit

error rate calculated for a first section is compared with a synchronization failure threshold

value, and ~~then, if~~ when the pilot bit error rate of the first section is greater than the

synchronization failure threshold value, a synchronization failure is indicated.

6.   (Currently Amended) An uplink synchronization detecting method of a mobile

communication system comprising:

calculating a pilot bit error rate (BER) of an uplink allocated to a finger, for a first

section;

comparing the first pilot BER calculated for the first section with a first

synchronization detection threshold value set for the first section;

judging the uplink is in synchronization status if when the first pilot BER is

smaller than the first synchronization detection threshold value;

calculating a second pilot BER of the uplink for a second section if when the first

pilot BER is not smaller than the first synchronization detection threshold value;

comparing the second pilot BER calculated for the second section with a second

synchronization detection threshold value set for the second section; and

judging the uplink is in synchronization status if when the second pilot BER is

smaller than the second synchronization detection threshold value.

7.   (Currently Amended) The method of claim 6, further comprising:

comparing the first pilot BER and a synchronization failure threshold value, if

when the second pilot BER is not smaller than the second synchronization detection threshold

value; and

judging the uplink is out of synchronization if the first pilot BER is greater than the synchronization failure threshold value.

8.   (Original) The method of claim 6, wherein the first and second sections comprise frames or slots.

9.   (Original) The method of claim 8, wherein the second section includes the first section and a prescribed numbers of frames to be accumulated to the first section.

10.   (Previously Presented) The method of claim 8, wherein the second section includes the first section and a prescribed number of slots to be accumulated to the first section.

11.   (Original) The method of claim 6, further comprising other sections in addition to the first and second sections.

12.   (Original) The method of claim 6, wherein a length of the section for calculating the pilot BER corresponds to the synchronization detection threshold value .

13.   (Original) The method of claim 12, wherein as the length of the section for

calculating the pilot BER decreases, the synchronization detection threshold value decreases.

14.   (Original) The method of claim 6, wherein the first synchronization detection

threshold value is smaller than the second synchronization detection threshold value.

15.   (Original) A mobile communication system, comprising:

logic configured to compare a synchronization detection threshold value set for

each section of a time period, wherein a pilot bit error rate is calculated for each section; and

logic configured to determine a synchronization detection for each section based

on a result of said comparison.

16.   (Original) The system of claim 15, wherein the time period includes at least one

of a plurality of frames and a plurality of slots.

17.   (Currently Amended) The system of claim 15, wherein if when the result of

the comparison indicates the pilot bit error rate is smaller than the synchronization detection

threshold value set for the section, synchronization is indicated.

18.   (Currently Amended) The system of claim 15, wherein ~~if~~ when the result of the

comparison for every section of said time period indicates the pilot bit error rate of every section

is not smaller than a corresponding synchronization detection threshold value set for every

section, a pilot bit error rate calculated for a first section is compared with a synchronization

failure threshold value, and ~~then, if~~ when the pilot bit error rate of the first section is greater than

the synchronization failure threshold value, a synchronization failure is indicated.

19.   (Original) The system of claim 15, further comprising:

logic configured to calculate a pilot bit error rate (BER) of an uplink allocated to a

finger, for a first section;

logic configured to compare the first pilot BER calculated for the first section

with a first synchronization detection threshold value set for the first section; and

logic configured to determine the uplink is in synchronization status if the first

pilot BER is smaller than the first synchronization detection threshold value.

20.   (Currently Amended) The system of claim 19, further comprising:

logic configured to calculate a second pilot BER of the uplink for a second section if-when the first pilot BER is not smaller than the first synchronization detection threshold value;

logic configured to compare the second pilot BER calculated for the second section with a second synchronization detection threshold value set for the second section; and

logic configured to determine the uplink is in synchronization status if-when the second pilot BER is smaller than the second synchronization detection threshold value.

21.   (Currently Amended) The system of claim 20, further comprising:

logic configured to compare the first pilot BER and a synchronization failure threshold value, if-when the second pilot BER is not smaller than the second synchronization detection threshold value; and

logic configured to determine the uplink is out of synchronization if the first pilot BER is greater than the synchronization failure threshold value.

22.   (Original) The system of claim 20, wherein the first and second sections comprise frames or slots.

23.   (Original) The system of claim 20, wherein the second section includes the first

section and additional frames to be added to the first section.

24.   (Original) The system of claim 20, wherein the second section includes the first

section and additional slots to be added to the first section.

25.   (Original) The system of claim 20, wherein the first synchronization detection

threshold value is smaller than the second synchronization detection threshold value.

26.   (Original) The system of claim 15, wherein a length of the section for calculating

the pilot BER corresponds to the synchronization detection threshold value.

27.   (Original) The system of claim 25, wherein as the length of the section for

calculating the pilot BER decreases, the synchronization detection threshold value decreases.

28.   (Original) The system of claim 15, wherein the system is a base station.